DOCUMENT RESUME

ED 060 845 JC 720 089

TITLE	Tarrant County Junior College: Its Economic Impact in Its Service Area.
INSTITUTION	Tarrant County Junior Coll. District, Ft. Worth, Tex.
PUB DATE	Apr 71
NOTE	55p.
EDRS PRICE	MF-$0.65 HC-$3.29
DESCRIPTORS	*Community Benefits; Community Change; *Community Development; *Economic Factors; Educational Economics; *Junior Colleges; Questionnaires; *School Community Relationship; Socioeconomic Background
IDENTIFIERS	*Texas

ABSTRACT

The purpose of this study was to determine the effects--both economic and educational--of Tarrant County Junior College (TCJC) on the community around it. The study, conducted in 1969-70, involved all students and employees of the college (the questionnaires used are included as appendices of this study). Direct economic influences on the area include: (1) TCJC students spent more than $35 million a year on food, clothing, shelter, transportation, and entertainment; (2) full-time employees and spouses earned over $7.5 million of which at least 80% of the net was spent in the county; (3) architectural and construction firms in the county have been paid about $21 million by the college; and (4) TCJC annually spends about $1.5 million for goods and services to county manufacturing, service, and sales organizations. Charts and tables detailing these and other direct economic influences are included. In addition, there are many indirect economic influences of the college such as providing the employment sector with better-trained people, however, such influences are only suggested by this study. (Author/LP)

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TARRANT COUNTY JUNIOR COLLEGE:

ITS ECONOMIC IMPACT IN ITS SERVICE AREA

JC 720 089

Office of Research
Tarrant County Junior College District
Fort Worth, Texas

UNIVERSITY OF CALIF.
LOS ANGELES

MAY 1 1972

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II. Economic Characteristics Data Summary (Phase II--Employee Survey)

ABSTRACT

The purpose of this study was to determine some effects of Tarrant County Junior College on its primary service area.

Most of the data were collected from a sample of students and employees and the study identifies the approximate dollar expenditures in several basic areas as well as the College's direct expenditures for the 1970-71 school year.

Here are some of the major findings:

-- if TCJC did not exist, 2,506 students would not be enrolled in college;

-- if TCJC did not exist, 2,983 students would not be living in this area;

-- TCJC students spend in excess of $35 million a year on food, clothing, shelter, transportation, and entertainment;

-- including students employed on part-time bases, TCJC employees number over 1,100--about half of whom are full-time employees;

-- TCJC full-time employees and spouses earned in excess of $7.5 million, of which at least 80 percent of the net is expended in Tarrant County;

-- about $21 million has been expended by the College to architectural and construction firms in Tarrant County in the development of the South and Northeast Campuses;

-- TCJC annually spends about $1.5 million for goods and services to Tarrant County manufacturing, service, and sales organizations;

-- directly and indirectly, TCJC has created in excess of 1,000 new jobs in Tarrant County; and

-- TCJC has meant a net population increase to Tarrant County of more than 7,000 people.

The foregoing findings are summary statements based on definitive explanations contained in the body of the Report. Further, this Report attempts to identify the more significant, direct economic

contributions to this service area. There are many indirect economic influences of the College, such as providing the employment sector with a better-trained people, which are not included in this study.

While contributing to the educational and manpower needs of Tarrant County, TCJC makes a significant contribution to the economic well-being of the area.

TARRANT COUNTY JUNIOR COLLEGE:

ITS ECONOMIC IMPACT IN ITS SERVICE AREA

CHAPTER I

INTRODUCTION TO THE STUDY

Higher Education is big business in Texas.

Based on preliminary 1970 figures released by the Coordinating Board of Texas College and University System, 427,772 students were enrolled in higher education institutions in Texas (excluding seminaries and technical institutes). Using the Census Bureau's 1970 preliminary count for Texas (10,997,939), for every 100 people in the state, 3.9 are enrolled in colleges and universities.

And higher education is big in Tarrant County.

The County has two private senior institutions enrolling 8,297 students; a private junior college enrolling 104; a public senior institution enrolling 14,115; and a public junior college with 10,652 students enrolled (official figures)[1]. For every 100 people in the county, 4.6 are enrolled in colleges or universities.

Descriptively:

- one of every four college students in Tarrant County is enrolled in a private institution; statewide, one of every six students is enrolled in a private institution;
- Tarrant County accounts for 9.74 percent of the State's population, whereas
  - 12.25 percent of all students enrolled in private senior institutions in Texas are enrolled in either TCU or TWC;

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[1] CB Report, Austin: Coordinating Board, Texas College and University System; October, 1970, p. 1-4.

-- 5.93 percent of all students enrolled in Texas public senior institutions are enrolled in UTA; and,

-- 9.49 percent of all students enrolled in Texas public junior colleges are enrolled in TCJC.

•• one of every three students in Tarrant County is enrolled in a junior college; statewide, about one of each six students is enrolled in a junior college;

•• more than 33,000 students are enrolled in Tarrant County's public and private colleges and universities;

•• since the Fall 1964, Tarrant County has had a 64.64 percent increase in college and university enrollments; and,

•• Tarrant County ranks third in Texas in the number of college students enrolled in the State; leading are Harris (53,024) and Travis (41,045). Dallas County (25,856) and Bexar (24,752) trail Tarrant County--though they are larger in population.

Tarrant County Junior College contributes to Tarrant County's total higher education program. When a junior college is in operation, more people take advantage of educational opportunities as illustrated by the following chart:[2]

COLLEGE-GOING RATES FOR SELECTED COUNTIES
(before and after the Opening of a Public Junior College within the County)
(Public colleges only)

County	1965 (Pre-junior college) Public college enrollment	1965 (Pre-junior college) College-going rate* (percent)	1967 (Post-junior college) Public college enrollment	1967 (Post-junior college) College-going rate* (percent)	Percent Change in enrollment in state junior and senior institutions, 1965-1967
Bell-Coryell	1,866	13.61	3,643	25.88	95.23
Dallas	18,044	15.33	25,263	19.59	40.00
Galveston	3,024	17.07	4,373	24.00	44.61
McLennan	891	4.86	2,487	12.87	179.12
Tarrant	10,510	17.05	14,778	23.30	40.61

* Enrollment as percent of 18-24 age population.
Source: The Coordinating Board, Texas College and University System.

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[2] Texas Business Review, Austin: Bureau of Business Research; The University of Texas at Austin; July, 1970, p. 175.

Tarrant County Junior College District was formed by the voters of Tarrant County in July, 1965. In September, 1967, 4,211 enrolled on the South Campus. Enrollment grew to 7,223 in its second year when the Northeast Campus opened; enrollment for Fall 1969 reached 9,060. In Fall 1970, TCJC officially enrolled 10,652 students--just behind San Antonio College (founded in 1925 and St. Philip's College founded in 1898) with 16,928 students and Dallas County Junior College District (three Colleges in operation) with 12,268 students. In fact, of Texas' over 100 public and private colleges and universities, TCJC now ranks tenth in total enrollment.

TCJC enrolled 10,652 in credit classes in Fall 1970. Here are preliminary projections for subsequent Fall semesters:

1971	12,564
1972	14,186
1973	15,967
1974	17,676
1975	19,048
1976	18,838
1977	19,533
1978	19,857
1979	20,510
1980	20,914

I. Purpose of the Report

The purpose of this study is to determine the effect of TCJC on Tarrant County's economy. Such a study should include not only the College's direct expenditures for goods and services but should also include the personal expenditures of students and employees.

This study follows some of the basic research methods used in a similar study, "The Economic Impact of Spokane Community College Upon the Spokane Metropolitan Area," conducted by Ronald Merchant as a thesis for the Master of Business Administration degree at Gonzaga University, Spokane, Washington, in 1968.

II. Research Procedures

Data Collection

Student Survey. In May, 1969, all students enrolled in a 9 a.m. (Wednesday) class or in a 6 p.m. (Wednesday) class were invited to complete an Economic Characteristics questionnaire. The administration of the questionnaire was conducted by the respective instructors; the time for this activity required 10-15 minutes. The two class hours at which the survey was administered provided the largest possible number of students. A total of 2,578 usable responses were received from the total population of 8,349 students officially enrolled in the Spring semester 1969-70; this sample included 30.9 percent of that semester's enrollment.

Employee Survey. Each employee of TCJC was sent a questionnaire similar to that used in the student survey; these forms were marked and returned in mid-May, 1970. About 75 percent of all TCJC employees provided their responses prior to the deadline.

Data Analysis

Data secured from both students and employees were analyzed by the Office of Data Systems at TCJC. The analysis used machine-scoring methods and afforded the opportunity to identify several variables for both the student and faculty surveys.

Supplementary Data

Additional data presented in this report were secured from various administrative offices at TCJC as well as published reports from governmental agencies in Austin and Washington. Also some data inputs were secured from the Fort Worth Chamber of Commerce. Care has been exercised to provide appropriate referencing of data sources.

III. Overview

This Chapter has stated the nature and research methods used in the study as well as a brief identification of the scope of higher education in the County.

Chapter II includes a discussion of various personal and economic characteristics of TCJC's 10,652 students, including amounts of expenditures in basic areas.

The content of Chapter III is a description of the personal and economic characteristics of the 565 full-time TCJC employees.

Chapter IV provides a summary of the Study and identifies the effects of TCJC on the area's economy.

CHAPTER II

PERSONAL AND ECONOMIC CHARACTERISTICS OF STUDENTS ENROLLED AT TARRANT COUNTY JUNIOR COLLEGE

I. Introduction

The metropolitan comprehensive community junior college must be an institution which provides educational opportunities to a wide range of people.

Tarrant County Junior College has a student body with diverse personal characteristics.

And the metropolitan community junior college typically attracts its students almost exclusively from people who already are residents of its primary service area; Tarrant County Junior College does serve Tarrant County residents and these students make a significant impact on the County's economy.

This chapter is divided into two parts: the first on personal characteristics and the second on the economic characteristics of students.

II. Personal Characteristics of TCJC Students

In the Fall 1970, TCJC enrolled more than 10,000 students. To more easily understand these students' characteristics, a cross-section of 1,000 of these students is offered.

Legal Residence (data from Student Profile Report)

For every 1,000 students enrolled at TCJC, 897 are legal residents of Tarrant County; 87 are legal residents of other Texas Counties (including 32 from Dallas County; 25, Johnson County; 8, Denton County; 3, Parker County; and 3, Wise County); and 16 are legal residents of other states or countries.

Legal residence is the determinant of the required tuition fee; Tarrant County residents pay the lowest amount and other Texas residents pay a slightly higher amount, while out-of-state residents pay tuition fees about four times the rate for Tarrant County residents.

Age of Students (SPR)

TCJC has an increasingly mature student population. In its first year, about two-thirds of all students were under 21; today, for every 1,000 students, 459 are under 21 years of age and 541 are 21-or-more years of age. These figures bear almost the same ratio to "age group" figures for all students enrolled in Texas' public higher education institutions.

Sex (SPR)

For every 1,000 students in the Fall 1970, 633 were men and 367 were women. These rates compare to 61.3 percent and 38.7 percent (men and women) enrolled in Texas' public senior colleges and universities in Fall 1969.

Marital Status (SPR)

Slightly more than one-half of all TCJC students are single. For every 1,000 students, 533 were single; 425 were married; 37 were divorced, and 5 were widowed.

Race (SPR)

In Fall 1970 almost ten percent of TCJC's students were members of minority groups; for every 1,000 students, 61 were Black, 20 were Mexican-Americans, 3 were American Indians, and one was Oriental.

Basis of Admission (SPR)

TCJC is an "open-door" college. Students are admitted from accredited high schools or from other collegiate institutions as well as on the basis of GED examinations and "Individual Approval."

For every 1,000 students who began their college careers in Fall 1970, 844 were high school graduates; 106 entered on the basis of their GED; and 55 entered on Individual Approval.

Looking at all students (both those who had never attended a college and those who had attended either TCJC or another higher education institution), for every 1,000 students this fall, 186 transferred from another college; 441 continued their study at TCJC after having entered previously; and 373 began their college career at TCJC. Of the 373, 201 had graduated in 1970 from a Tarrant County High School.

Course Load (SPR)

For every 1,000 students at TCJC, 483 are full-time students (12-or more semester hours) while 517 are part-time students. For all students, their average semester hour load was 10.08 semester hours in Fall 1970.

With a "maturing" student body--almost half of which is married, TCJC expects to have about one-half of all students enroll for full-time study and about half for part-time study. The average semester-hour load for all students was 10.92 in Fall 1967; while this average has decreased slightly, it should "level off" at about the 10 semester-hour average.

Time Enrolled (SPR)

TCJC presently begins classes at 7 a.m. and classes end at 11 p.m.--a 16-hour day. Of every 1,000 students, 586 enroll in classes during the day (before 6 p.m.) while 315 enroll only in classes at night (after 6 p.m.). Another 99 students enroll in both day and evening classes.

Through this extended-day operation, TCJC seeks to maximally utilize facilities and to afford people with educational opportunities at times most convenient for them.

Living Accommodations (data from Economic Characteristics Study)

For each 1,000 students, 529 live with their parents or other relatives; 245 own (or are purchasing) their home; 73 rent homes; 141 rent apartments; and 12 live in rented rooms.

TCJC's students live all over the County. For each 1,000 students, 91 live more than 20 miles from their campus; 334 live between 10 and 20 miles from their campus, and 575 live within 10 miles of their campus.

Transportation (ECS)

TCJC students travel around the earth the equivalent of 32 times each week--more than 840,000 miles. For each 1,000 students, 928 drive a car to classes; 58 share a car (car pool); 6 ride public transportation, and 8 ride two-wheeled vehicles.

High School Entrants (SPR)

According to a Texas Education Agency Report (Report of Public High School Graduates, 1969-70), there were exactly 8,300 graduates from public high schools in the County. Of this total, 4,669 (56.25 percent) stated their intention to enter college after high school graduation. TCJC enrolled 2,059 of these young people in either Spring 1969-70, Summer 1969-70, or in Fall 1970. Almost 45 percent of those planning to attend college began their college study at TCJC.

The list on the following page shows the area high schools and the number of 1970 graduates who entered TCJC. The second column of figures shows the number who have entered TCJC directly after high school graduation since TCJC opened in 1967.

ENROLLEES FROM AREA HIGH SCHOOLS

	1970	Since 1967
Arlington Independent School District		
Arlington High School	105	364
Sam Houston High School	68	291
Azle High School	32	86
Birdville Independent School District		
Haltom High School	104	267
Richland High School	170	449
Burleson High School	32	108
Carroll High School	5	13
Castleberry High School	88	279
Crowley High School	11	36
Eagle Mountain-Saginaw Independent School District		
Boswell High School	50	124
Everman High School	56	229
Fort Worth Independent School District		
Arlington Heights High School	142	567
Carter-Riverside High School	57	215
Como High School	15	109
Diamond Hill-Jarvis High School	23	95
Dunbar High School	31	248
Eastern Hills High School	89	333
Kirkpatrick High School	10	58
North Side High School	31	174
Paschal High School	175	897
Polytechnic High School	45	440
Southwest High School	147	245
I. M. Terrell High School	34	234
Trimble Technical High School	86	407
Western Hills High School	86	91
O. D. Wyatt High School	71	100
Grapevine High School	41	95
Hurst-Euless-Bedford Independent School District		
Bell High School	200	642
Kennedale High School	8	39
Lake Worth High School	19	86
Mansfield High School	24	98
White Settlement Independent School District		
Brewer High School	45	174

Place of Residence

Wherever one lives in Tarrant County, he has neighbors who are enrolled in TCJC. Here is where Fall 1970 TCJC students lived by ZIP Code areas:

76010	Arlington	918
76020	Azle	63
76021	Bedford	243
76028	Burleson	141
76036	Crowley	47
76039	Euless	295
76051	Grapevine	132
76052	Haslet	4
76053	Hurst	759
76060	Kennedale	23
76063	Mansfield	65
76079	Saginaw	41
76080	Smithfield	89

Students with these ZIP Codes had Fort Worth addresses:

76102	Downtown Area	48
76103	Meadowbrook Area	200
76104	Southtown Annex Area	252
76105	Poly Station Area	256
76106	Stockyards Area	339
76107	Arlington Heights Area	467
76108	White Settlement Area	202
76109	TCU - West Area	197
76110	Berry Street Area	331
76111	Riverside Station Area	266
76112	Handley Station Area	441
76114	River Oaks Branch Area	417
76115	Seminary Hill Station Area	295
76116	Ridglea Station Area	251
76117	Haltom City Area	500
76118	Richland Hills Area	609
76119	Glencrest Station Area	526
76126	Benbrook	83
76127	Carswell AFB Area	4
76131	Watauga Area	20
76132	Edwards Ranch Area	43
76133	Wedgewood Station Area	510
76134	Edgecliff Area	251
76135	Lake Worth Area	107
76140	Everman	88

III. Economic Characteristics of TCJC Students

Introduction

The data presented in this section were secured from 2,578 students enrolled on the two campuses of TCJC during the spring semester, 1969-70. This sample represents 30.9 percent of the spring enrollment.

To assure that an appropriate sample was secured, students in both day and evening classes were included. The survey instrument included several questions to secure data to compare the sample with other data previously generated on all students. This approach was used to assure that the sample was indeed a true cross section. For example, 61 percent of the sample responses were from men, while men accounted for 63 percent of all TCJC students. This, and other control questions, provided real confidence in the accuracy of the sample.

To facilitate understanding, some of the following narrative will describe a cross section of 1,000 TCJC students enrolled in the Fall 1970 semester.

Housing Accommodations

For every 1,000 students enrolled at TCJC, 529 live with their parents or reside in the home of other relatives. It is assumed that these facilities should not actually be considered "rental"; therefore, no cost figures are presented for those students who reside with their parents.

Of the remaining 471 students (of each 1,000), 141 live in apartments and 73 live in rented homes. Twelve students live in rented rooms; the largest group--245--reside in homes they own or are purchasing.

Looking at these figures another way, TCJC had 5,013 students who maintained their own place of residence during the Fall 1970 semester. This means that TCJC students:

- - rent 1,504 apartments;
- - own (or are purchasing) 2,607 homes;
- - rent 752 houses; and
- - rent 150 rooms.

These students pay an average of $114.59 per month for housing accommodations. Annually, the total amount expended by TCJC students who maintain their own places of residence is $6,892,875.

Utility Expenditures

It was not deemed appropriate to allocate utility costs for those students who reside with their parents.

For those students who maintain their own living accommodations, an average of $33.75 per month was spent on utilities. Annually, these 5,013 independent students spend a total of $2,030,265 on utilities--electricity, gas, water and telephone services.

Food Expenditures

Students maintaining their own residences spend an average of $98.92 per month on food consumed in their home. Annually, these student families spend $5,950,431 on groceries.

The students who reside with their parents estimate food expenditures at $84.29 per month. In that they were to estimate what they spend as well as what is spent on them, this figure appears unrealistically high. This is the only area where estimates did not appear accurate--and it may be that these students do not have realistic knowledge on the costs of food; this is borne out by the fact that on clothes, car expenses, entertainment, etc., their estimates are very realistic. Consequently, the estimated food expenditure for students living with their parents has been omitted entirely.

Restaurant Expenditures

Dependent students (those living with parents) spent an average of $18.32 per month in restaurants, equivalent to an annual expenditure of $1,240,580.

Students maintaining their own homes spent an average of $21.00 per month, which is equivalent to $1,263,276 a year.

Based on these figures, TCJC students spend over $2½ million a year in restaurants.

Clothing Expenditures

The 5,639 dependent students spent an average of $22.16 per month on wearing apparel, while the independent students spent $25.04 per month--representing, respectively, $1,499,974 and $1,503,900, or a total of $3,003,874 per year.

Household Expenditures

Again, the expenditures for dependent students were deleted in that it was anticipated that their expenditures on "dishes, drapes, linens, etc.," would be minimal.

For those students who maintain their own home, the average household goods expenditure was $18.99 per month for a total of $1,142,964.

Entertainment Expenditures

Students residing in the homes of their parents spent an average of $25.66 a month, while the average monthly entertainment expenditures for independent students is $24.22. Annually, the dependent students spend $1,736,812 and the independent students spend $1,458,783--for a total of $3,195,595 on entertainment.

Transportation Expenditures

In a commuter college, transportation costs can be a significant

student expenditure. Here is how a cross section of 1,000 students commute:

811 in their own car;
117 in a car owned by their family;
58 in the car of another student;
6 in public transportation; and
8 on two-wheeled vehicles.

Of the cars operated by all students, 71.2 percent were purchased in Tarrant County; for TCJC's 10,652 students, this means that they are driving:

-- 3,407 new cars which were purchased in Tarrant County; and

-- 4,261 used cars purchased in Tarrant County.

Further, payments were being made to Tarrant County lending agencies by 51 percent of the student drivers. As a group, all dependent students were making an average car payment of $36.15 per month to a Tarrant County lending agency; independent students (those maintaining their own homes) made on the average a payment of $47.62 per month to a Tarrant County agency. Annually, dependent students make payments totaling $2,447,326 and the total for independent students is $2,862,423--for a grand total of $5,309,749 in auto payments made to local lending institutions.

The average TCJC student commutes 19.3 miles per day roundtrip from his place of residence to classes and the average student makes this roundtrip 4.10 times per week. Simply stated, the average TCJC student commutes 79 miles per week to and from classes. Further, TCJC's 10,625 students commute 841,508 miles per week.

Obviously, auto maintenance costs are significant; the average auto service costs of the 5,639 students who live with their parents average a monthly expenditure of $35.37 per month for an annual total of $2,390,936.

The 5,013 students who maintain their own home average $43.08 per month, yielding an annual expenditure of $2,591,721 on auto service.

Total Expenditures in Basic Areas

The following table summarizes the data previously discussed in the several basic areas:

Expenditures	Dollars Spent in Basic Areas						All Students (10,652)
	Dependent Students (5,639)			Independent Students (5,013)			
	Mo.	Yr.	Total	Mo.	Yr.	Total	Total
Housing	- -	- -	$ - -*	114.59	1,375	$ 6,892,875	$ 6,892,875
Utilities	- -	- -	- -*	33.75	405	2,030,265	2,030,265
Groceries	- -	- -	- -*	98.92	1,187	5,950,431	5,950,431
Restaurant	18.32	220	1,240,580	21.00	252	1,263,276	2,503,856
Clothes	22.16	266	1,499,974	25.04	300	1,503,900	3,003,874
Household	- -	- -	- -*	18.99	228	1,142,964	1,142,964
Entertainment	25.66	308	1,736,812	24.22	291	1,458,783	3,195,595
Auto Payments	36.15	434	2,447,326	47.62	571	2,862,423	5,309,749
Auto Service	35.37	424	2,390,936	43.08	517	2,591,721	4,982,657
Total	137.66	1,652	$9,315,628	427.21	5,126	$24,696,638	$35,012,266

* reside with parents or other relatives; no amounts were computed for housing, utilities, groceries, or household expenditures.

Other studies, conducted in recent years, have had very similar findings:

-- TCU students spend an average of $1,500 per year in Fort Worth, but this amount excludes the amount students spend on-campus for dormitory and food service provided by the university[1] (11 percent of TCU's undergraduates are married)

-- Texas Tech students spend an average of $2,400 a year in Lubbock[2] (less than one-fourth of all Tech students are married)

-- Average student expenditures at Spokane (Washington) Community College were $2,017 in 1968.[3]

As with this study, the above cited studies generally included these basic areas of expenditures. The TCJC study was patterned, in fact, after the Spokane study.

The average annual expenditure by TCJC students in these basic areas was $3,286.92; this figure should be considered in light of the fact that 47 percent of TCJC's students are married and that these students' estimates included family expenditures. Further, this study uses a 12-month base where institutions with large resident enrollments may more typically compute a nine-month average expenditure.

The average annual expenditure of $1,652 for students living at home compares vary favorably to the figure already in use by TCJC Financial Aid Directors. The $5,126 amount may appear to be high--but

-- 4,311 of the 5,013 (86 percent) in this group are (or have been) married,
-- of those who have married, they have an average of 1.60 children.

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[1]"How TCU Contributes to the County's Economy," The Search at TCU, (Vol. 3, No. 2); May, 1968; p. 6.

[2]"67,500,000 Reasons You Count for Yourself," Researched and published by the Lubbock Chamber of Commerce in 1967.

[3]Ronald Merchant, "The Economic Impact of Spokane Community College Upon the Spokane Metropolitan Area," Unpublished MBA Thesis; Gonzaga University; May, 1969; p. 38.

There are many other areas of student expenditures which were not included in the survey instrument; among them are:

medical and pharmaceutical expenses
premiums paid on health, life, and auto insurance
laundry and dry cleaning expenditures
expenditures on toiletries, cosmetics, etc.
barber and beauty shop expenditures.

IV. If TCJC Did Not Exist

The following narrative identifies what TCJC students would be doing if TCJC did not exist.

Dependent Students

Of the 5,639 dependent students, here is what they said they would be doing:

*2,707 would be enrolled in other colleges and universities while residing in Tarrant County;
2,030 would have left Tarrant County to attend another college or university;
507 would not be enrolled in college but would continue to reside in Tarrant County;
113 would have left Tarrant County for employment; and
282 would have been in none of the above categorizations.

A total of 902 students would not be in college were it not for TCJC; 2,425 students would not be residing in Tarrant County if TCJC did not exist.

Independent Students

TCJC had 5,013 students in Fall 1970 who maintained their own home. Here is what they say they would be doing:

*2,707 would be enrolled in area institutions while residing in Tarrant County;
702 would have left Tarrant County to attend other educational institutions;
953 would be working in Tarrant County but not enrolled in college;
100 would have left Tarrant County for employment; and,
551 would not be in any of the above classifications.

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* In applying the percents based on the sample, these two figures were identical.

At least 802 independent students would have left Tarrant County were TCJC not in operation; another 1,504 students would not be enrolled in college.

Of all students, 2,506 (24 percent) would not be enrolled in college if TCJC did not exist. Further, 2,983 (28 percent) students would not be living in this area if TCJC did not exist.

V. Summary

TCJC students spend annually in excess of $35 million in basic areas--food, clothing, shelter, transportation, and entertainment; at least 85 percent of these expenditures are made in Tarrant County.

Here are the net economic effects of TCJC student expenditures:

Dependent Students (5,639)		
Annual Basic Expenditures	$ 9,315,628	
less 57% who would remain in County	5,309,908	
		$4,005,720
Independent Students (5,013)		
Annual Basic Expenditures	25,696,638	
less 73% who would remain in County	18,758,576	
		6,938,062
Net Effect of Students Remaining in County		$10,943,782

Based on the survey data, TCJC is keeping students in Tarrant County who would not otherwise be residing in the County, and these students spend $10,943,782 in the basic areas identified above.

In terms of increased population, TCJC adds 6,589 students (and their families) to the County's population, as shown below:

Dependent Students	5,639	
57% would remain in Tarrant County	3,214	
		2,425
Independent Students	5,013	
Spouses	4,010	
Children (1.60 X 4,010)	6,400	
	15,423	
73% would remain in Tarrant County	11,259	
		4,164
Net Effect of Students Remaining in County		6,589

In terms of a better trained citizenry and manpower resource, 2,506 students--24 percent of the College's enrollment--would not otherwise be receiving college training.

CHAPTER III

PERSONAL AND ECONOMIC CHARACTERISTICS OF TCJC EMPLOYEES

I. Introduction

In October, 1970, the TCJC family included over 1,000 full- and part-time employees. Basically, here is how these personnel were classified:

Faculty and Administration	319 FT; 150 PT
Food Service	31 FT; 3 PT
Maintenance	103 FT; 9 PT
Secretarial and Clerical	101 FT; 2 PT
Security	11 FT; 0 PT

In addition to the above 565 full-time and 164 part-time employees, 364 students enrolled at TCJC were employed by the College in part-time positions during October, 1970.

The data for this chapter were collected in May, 1970, by a survey of 235 full-time faculty and administrative staff members and 55 part-time faculty members. In surveying full-time non-instructional personnel, data on 164 employees were secured.

II. Characteristics of Faculty and Administration

This section is devoted to a discussion of the personal and economic characteristics of the 319 full-time faculty and administrative staff members employed in the Fall semester, 1970-71.

Length of Residence

Of the 319 full-time faculty and administrative personnel,

- -- 48 had moved to Tarrant County since September 15, 1968
- -- 64 moved to Tarrant County after September 15, 1967
- -- 76 moved to Tarrant County after September 15, 1965-- when TCJC was created--but before September 15, 1967-- when the College actually opened
- -- 102 full-time employees were already living in Tarrant County prior to September 15, 1965
- -- 29 employees currently live outside the county.

Sex

Sixty-eight percent of TCJC's teaching and administrative personnel are males; this is equivalent to 217 men and 102 women.

Marital Status

Forty-two TCJC professional employees are single; 252 are married, and 25 are divorced or widowed.

Number of Children

No survey question dealt specifically with the number of children; however, it was determined that these 319 employees have 278 children enrolled in Tarrant County elementary and secondary schools. Twenty staff members also have at least one offspring enrolled in a Tarrant County college or university.

Living Accommodations and Place of Residence

A total of 226 TCJC professional employees live in homes that they own or are purchasing; another 19 live in rented or leased homes while 74 live in apartments.

These personnel live throughout the County: 121 live within five miles of their College office; 64 live between 6-10 miles from their office, while 48 live between 11-15 miles from the campus. Living between 16-20 miles from their assignment are 51 professional employees, and 35 reside more than 20 miles from their place of work.

Alternate Activities

If TCJC did not exist:

- -- 105 of these people would be living and working in Tarrant County
- -- 13 would be living but not working in Tarrant County
- -- 6 would be working but not living in Tarrant County
- -- 131 would be living elsewhere in Texas
- -- 64 would be living outside Texas.

Place of Residence

Wherever one lives in Tarrant County, he has neighbors who are employees of TCJC. Here is where Fall 1970 full-time TCJC employees lived by ZIP Code areas as to Instructional (I) or Non-Instructional (NI).

		(I)	(NI)
76010	Arlington	25	9
76012	Arlington	3	0
76013	Arlington	3	2
76014	Arlington	0	1
76015	Arlington	0	1
76020	Azle	1	1
76021	Bedford	9	3
76028	Burleson	7	5
76034	Colleyville	0	1
76036	Crowley	0	1
76039	Euless	6	5
76051	Grapevine	1	3
76053	Hurst	50	22
76058	Joshua	1	0
76060	Kennedale	0	1
76063	Mansfield	0	6
76079	Saginaw	1	0
76080	Smithfield	5	2
75067	Lewisville	1	1

Employees with these ZIP Codes had Fort Worth addresses:

76101	Downtown Area	0	1
76102	Downtown Area	1	3
76103	Meadowbrook Area	6	5
76104	Southtown Area	2	12
76105	Poly Station Area	0	6
76106	Stockyards Area	0	6
76107	Arlington Heights Area	2	10
76108	White Settlement Area	1	1
76109	TCU - West Area	18	1
76110	Berry Street Area	5	13
76111	Riverside Station Area	0	5
76112	Handley Station Area	16	13
76114	River Oaks Branch Area	5	5
76115	Seminary Hill Station Area	13	13
76116	Ridglea Station Area	14	6
76117	Haltom City Area	2	15
76118	Richland Hills Area	20	18
76119	Glencrest Station Area	27	40
76126	Benbrook	0	2
76127	Carswell AFB Area	0	0
76131	Watauga Area	0	0
76132	Edwards Ranch Area	10	1
76133	Wedgewood Station Area	21	7
76134	Edgecliff Area	8	14
76135	Lake Worth Area	3	1
76140	Everman	4	6

Prior Employment

Of TCJC's 319 professional employees, 115 were employed in Tarrant County prior to their joining TCJC; 109 of these 115 positions were filled when that employee left to join TCJC.

Migrating to Tarrant County for employment were 172 other professional employees who were employed outside Tarrant County prior to joining TCJC.

Another 32 employees joined TCJC after having been out of the labor market--primarily as full-time graduate students.

Employment Status of Spouse

Sixty-seven of the 319 employees are single, divorced, or widowed; of the 252 who have spouses, 53 percent (134) have spouses who are employed. Here are the number employed (excluding 5 spouses employed at TCJC) by salary range:

under $300 per month	10
$300 - $500	30
$500 - $700	50
$700 - $900	16
over $900 a month	28

The income generated by the spouses adds another dimension to the total impact of the College on the County's economy.

Where They Spend Their Income

All professional employees were asked to what percent of their net income was spent in Tarrant County; here is what they said:

Percent Spent in Tarrant County	Number (319)	Cumulative Number
less than 10%	13	13
10 - 20%	3	16
20 - 30%	3	19
30 - 40%	3	22
40 - 50%	6	28
50 - 60%	13	41
60 - 70%	3	44
70 - 80%	42	86
80 - 90%	80	166
90 % or more	153	319

TCJC professional employees spend their income in Tarrant County; in fact, 86 percent spend at least 80 percent of their income in Tarrant County. For all professional personnel, the average of their net income expenditures spent in the County is 81 percent.

Basic Expenditures

Here is a list of some basic areas of expenditures by TCJC full-time faculty and administration; in these areas, virtually all expenditures are made in Tarrant County:

Housing and Utilities. The average monthly expenditure for housing by full-time TCJC professional employees is $173.50; projected for the 319 personnel is an annual total of $664,158. In addition, monthly utilities costs averaged $53.25 per employee, yielding an annual amount of $203,841.

Food Expenditures. The average professional employee and his family spends an average of $120.50 per month on groceries. In addition, $36.25 per month was the average spent per employee-family in restaurants; annually, these amounts represent $461,274 in groceries and $138,765 in restaurants.

Clothing Costs. TCJC professional employees and their families spend a total of $170,346 each year on wearing apparel; average monthly expenditure by family unit is $44.50.

Household Expenditures. For drapes, linens, etc., the average family spends $28.50--equivalent to an annual expenditure of $109,098. This amount does not include appliances, which was omitted from the survey instrument.

Entertainment. The professional employee and his family expends an average of $36.50 per month on entertainment. For the 319 employees in this group, this is equivalent to an annual expenditure of $139,722.

Auto Expenses. These personnel drive in excess of 32,000 miles per week to and from their assignment in 196 new and 96 used cars--purchased since they joined TCJC.

On the average, these families make auto payments to Tarrant County lending agencies of $76.56 a month--equivalent to $293,161 annually.

For auto service, the monthly average is $45.00 per employee family, for a yearly total of $172,260.

III. Characteristics of Support Personnel

In October, 1970, TCJC employed 246 people on full-time bases in support areas--secretarial, food service, maintenance, and security, etc.

Length of Residence

Of the 246 full-time support personnel, 160 resided in Tarrant County when the college was established and 66 have moved to the County since September, 1965. Twenty employees do not reside in the County.

Sex and Marital Status

Men account for 96 of the support personnel, while women account for 150 of those in this group.

A total of 202 of the 246 support employees are married; twenty-five are widowed or divorced, and nineteen are single.

Residence

Most of these employees--a total of 177--are residing in a home they own or are purchasing and 20 live in rented homes. Thirty-nine of these employees live in rented apartments or rooms, while ten reside with their parents.

These employees tend to live nearer their place of employment than faculty members and administration; 38 percent (93) live within five miles, and 28 percent (69) live between 6 and 10 miles of their job. Thirty-nine

support employees live 11 to 15 miles from their assignment, and 44 live more than 15 miles from their work station.

Alternate Activities

If TCJC did not exist:

-- 216 of the 246 would continue to live and/or work in Tarrant County
-- 20 would be employed elsewhere in Texas and
-- 10 would be employed outside of Texas.

Prior Employment

Of the 246 support employees, 170 were employed in Tarrant County prior to joining TCJC, and 30 were employed elsewhere in Texas. Seven employee's prior employment was outside Texas. Another 39 were not in the labor market prior to joining TCJC.

Employment of Spouse

Of the entire group of 246 support employees, 159 have spouses who are employed outside TCJC. Here are the monthly salaries of the spouses:

under $300 per month	22
$300 - $500	56
$500 - $700	32
$700 - $900	13
$900 or more per month	36

In addition to the above, eight have spouses employed at TCJC. Of those TCJC support employees who are married, over 80 percent of their spouses are employed in full-time positions. As a group, all support personnel spend 86.92 percent of their net family income in Tarrant County.

Where They Spend Their Income

Here is the way non-instructional personnel responded concerning the percent of net income spent in Tarrant County:

Percent Spent in Tarrant County	Number (246)	Cumulative Number
less than 10%	2	2
10 - 20%	1	3
20 - 30%	1	4
30 - 40%	0	4
40 - 50%	2	6
60 - 70%	15	27
70 - 80%	19	46
80 - 90%	48	94
90% or more	152	246

Like professional employees, these support personnel also spend most of their net income in Tarrant County. Eighty-one percent of these employees spend more than 80 percent of the net family income in Tarrant County.

Basic Expenditures

Here is a description of the basic expenditures of TCJC support personnel:

Housing and Utilities. The average monthly expenditure on housing for this group of employees was $139 a month. For the 246 employees, this monthly rate is the equivalent of $410,328 annually. The average monthly expenditure on utilities is $49.75 for an annual amount of $146,862 for all support employees.

Food Expenditures. These employees spend an average of $115.00 each month on groceries and another $30.95 in restaurants. Annually, these expenditures for the group total $430,254--$339,480 for groceries and $90,774 in restaurants.

Clothing Expenditures. Clothing expenditures average $37.75 per month for each support employee and his family--or an annual amount of $111,438.

Household Expenditures. Each individual employee averages an expenditure of $31.50 a month on household goods. The annual amount for the group on this area of expenditure is $92,988.

Entertainment. The 246 employees and their families expend $78,228 annually on entertainment--based on an average of $26.50 a month for each employee.

Auto Expenses. These employees travel 23,460 miles per week round-trip from their homes to their place of work; this is an average of 95 miles per week for each employee.

Since joining TCJC, these employees and their families have bought 103 new cars and 98 used cars.

Monthly auto payments made to Tarrant County lending agencies average $69.42; annually, this represents an expenditure of $204,918. These employee families spend an average of $40.00 each month for repair and service on their automobiles--equivalent to an annual expenditure of $118,080.

IV. Summary

In Fall 1970, TCJC employees totaled:

319 full-time faculty and administration
246 full-time non-instructional staff
150 part-time instructors (regular classes)
14 part-time non-instructional personnel
45 part-time Continuing Education instructors
364 students employed on part-time bases

The "TCJC-employee" family exceeds 1,100--almost half of whom are full-time employees. This employee family will earn from TCJC a total of $5,696,592 during the 1970-71 school year.

In addition, the spouses of instructional personnel will earn $1,015,200 and the spouses of non-instructional employees will earn

$920,232 annually. TCJC employees and their spouses annually earn in excess of $7.5 million, of which at least 80 percent of the net is expended in Tarrant County.

The table on the following page identifies these employees expenditures in nine basic areas.

Since joining TCJC, these full-time employees have purchased 277 new cars and 220 used cars; 355 full-time employees were making auto payments to a Tarrant County lending agency.

Of these full-time employees, 225 employees and their families would not be in the Tarrant County area if TCJC did not exist. Stated simply:

> 280 families have moved to Tarrant County because of TCJC;
> 114 of these new families also have an employed spouse; and
> 242 positions were opened after Tarrant County residents assumed new positions at TCJC.

TCJC has created 636 new full-time positions in Tarrant County, of 394 were assumed by people moving into the County.

PROFILE OF AVERAGE BASIC EXPENDITURES FOR TCJC FULL-TIME

PROFESSIONAL AND NON-INSTRUCTIONAL EMPLOYEES

Expenditures	Professional			Non-Instructional			Total
	Mo. Exps.	Annual (X 12)	Total	Mo. Exps.	Annual (X 12)	Total	All FT Employees
			319			246	565
Housing	173.50	2,082	664,158	139.00	1,668	410,328	1,074,486
Utilities	53.25	639	203,841	49.75	597	146,862	350,703
Groceries	120.50	1,446	461,274	115.00	1,380	339,480	800,754
Restaurants	36.25	435	138,765	30.75	369	90,774	229,539
Clothing	44.50	534	170,346	37.75	453	111,438	281,784
Household	28.50	342	109,098	31.50	378	92,988	202,086
Entertainment	36.50	438	139,722	26.50	318	78,228	217,950
Auto Payments	76.56	919	293,161	69.42	833	204,918	498,079
Auto Service	45.00	540	172,260	40.00	480	118,080	290,340
Total	614.56	7,375	2,352,625	539.67	6,476	1,593,096	3,945,721

CHAPTER IV

SUMMARY OF THE ECONOMIC EFFECTS OF TCJC

Tarrant County Junior College does contribute substantially to its service area.

Here are some examples of its direct effects:

1. New Jobs. TCJC created directly more than 800 full-time jobs in Tarrant County.

2. Population. With employees migrating to Tarrant County and students remaining here, the County's population is increased over 7,000 people.

3. Construction. Almost $21 million has been expended to Tarrant County architectural and construction firms in the building of the South and Northeast Campuses.

4. Goods and Services. Annually, TCJC contributes about $1.5 million to Tarrant County businesses for the purchase of goods and services, including about $400,000 for utilities.

5. Salaries. Annual salaries paid by TCJC to its instructional and non-instructional personnel total about $5.5 million. TCJC spouses earn about $2 million dollars per year. Of this $7.5 million, more than 80 percent of the net is spent in Tarrant County.

6. Student Expenditures. TCJC students spend in excess of $35 million dollars annually on food, clothing, shelter, entertainment, and transportation.

The following paragraphs provide additional details in each of the six areas identified above.

New Jobs

Tarrant County Junior College, in Fall 1970, employed 565 people in full-time positions. Each of these can be considered as a new job created since 1965 when the College's first employees assumed their positions. Another 285 jobs in Tarrant County were filled when personnel holding these jobs moved to TCJC for employment.

A total of 280 people have migrated to Tarrant County to join TCJC. To provide services for these 280 new residents, 207 additional new jobs were created.[1]

Therefore, directly and indirectly, TCJC has created 1,057 new jobs in the Tarrant County area.

Population

TCJC has also influenced the County's population--both in the migration of new students and employees and in the retaining of students who would otherwise leave the County.

Using data for Fall 1970, here are TCJC's population influences. A total of 280 employees came to Tarrant County to join TCJC; the Commerce Department (Bureau of the Census) estimates the population per household at 3.19 people.[2] Hence, full-time employees and their families has increased the area population by 893.

Another 2,425 dependent students are residing here who would not be in the County were TCJC not in operation; independent students, their spouses, and their children--in Tarrant County because of TCJC--total 4,164. TCJC students and their dependents contribute an additional 6,589 people.

TCJC increases the County's population by 7,482 people.

Construction

Architects and general contractors for TCJC's two campuses have been Tarrant County firms; the 345 acres on which these campuses are located are the sites of 24 permanent buildings erected at a cost of

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[1] "What New Industrial Jobs Mean to a Community," Chamber of Commerce of the United States, (Economic Research Department), 1965, p. 2.

[2] U. S. Bureau of the Census, Statistical Abstract 1970, (91st Edition), Washington, D. C.: Government Printing Office; p. 35.

almost $17 million. The men who built these buildings were employees of Tarrant County firms, and most furniture and equipment in them--costing over $2 million--were purchased through Tarrant County firms on bid bases.

The facilities of Tarrant County Junior College comprise over 700,000 square feet of space; more than 52,000 yards of concrete and 3 million bricks--purchased in Tarrant County--went into the construction of these facilities.

Goods and Services

In 1970-71, TCJC will purchase goods and services from Tarrant County sales and manufacturing firms in excess of $1.5 million; locally bought goods and services range from fluorescent lamp tubes--there are over 20,000 on the South Campus--to sheep brains used in a Northeast Campus Biology laboratory.

Throughout its operation, TCJC has relied almost exclusively on local suppliers for goods and services in equipping and maintaining its facilities.

Salaries

For the year 1970-71, TCJC will expend about $5.5 million for salaries of full- and part-time employees; these salaries include instructors and administrators for regular college courses ranging from Freshman English to Operating Room Technology as well as salaries for the self-supporting Continuing Education program.

Salaries of spouses of full-time TCJC employees total about $2 million dollars each year. The TCJC family of employees will have about $7.5 million in income at their disposal, of which, more than 80 percent of the net will be spent in Tarrant County.

Basic Expenditures

Chapter II has dealt exclusively with the personal and economic characteristics of TCJC students; in summary, these students and their families will spend more than $35 million this year on food, clothing, shelter, entertainment and transportation. The table on the following page shows the amounts each type of employee and student will expend annually in the nine basic areas.

In addition to the dollar values shown on the following page, the TCJC family of students and employees:

-- rent 1578 apartments
-- own (or are purchasing) 2833 homes
-- rent 771 houses
-- rent 150 rooms

For transportation, students and employees of TCJC operate in excess of 14,000 automobiles.

Future Growth of TCJC

By 1980, TCJC should at least double its 1970 enrollment--to over 20,000 students. This projection, however, is based almost exclusively on only those people who now live in Tarrant County--yet migration to the County is expected to be large. In fact, the population of Tarrant County is projected to be 955,149 in 1980.[1]

Based on present levels, here is what each additional 1,000 TCJC students would contribute to the County's economy:

-- 30 additional full-time professional (instructional) employees, 19 of whom would be new residents of the County. The newcomers and their dependents would increase the County's population by 68.

-- 23 additional full-time non-instructional employees, 7 of whom would be new residents of the County--increasing the County's population by 25.

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[1]Planning Department; City of Fort Worth.

ANNUAL EXPENDITURES IN BASIC AREAS

Expenditures	Students		Full-Time Employees		Total
	Independent	Dependent	Support	Professional	
	(N=5,013)	(N=5,639)	(N=246)	(N=319)	(N=11,217)
Housing	6,892,875		410,328	664,158	7,967,361
Utilities	2,030,265		146,862	203,841	2,380,968
Groceries	5,950,431		339,480	461,274	6,751,185
Restaurants	1,263,276	1,240,580	90,774	138,765	2,733,395
Clothing	1,503,900	1,499,974	111,438	170,346	3,285,658
Household	1,142,964		92,988	109,098	1,345,050
Entertainment	1,458,783	1,736,812	78,228	139,722	3,413,545
Auto Payments	2,862,423	2,447,326	204,918	293,161	5,807,828
Auto Service	2,591,721	2,390,936	118,080	172,260	5,272,997
Total	$25,696,638	$9,315,628	$1,593,096	$2,352,625	$38,957,987

-- 15 additional part-time personnel would be required, supplementing the personal income of present County residents.

-- 34 additional students would be employed in part-time positions at TCJC.

-- 702 people would come to or remain in the County who would otherwise not be residing here as TCJC employees or students.

-- $3,647,340 would be generated each year in the County's economy by these students and the additional College employees in the basic expenditure areas.

Conclusions

Tarrant County Junior College makes a significant impact on the area's economy; the following is a list of conclusions:

1. The TCJC family of students and employees spend about $3¼ million dollars a month on food, clothing, shelter, transportation, and entertainment. If TCJC did not exist, this amount would be <u>decreased by more than $1 million</u> per month.

2. For goods and services, the College spends directly to Tarrant County sales and manufacturing firms in excess of $1½ million a year.

3. In retaining students in the County and in bringing employees and students to the County, TCJC meant a net population increase of more than 7,000 people for the County in 1970.

4. TCJC has directly or indirectly created in excess of 1,000 new jobs in the County since the College's beginning.

5. TCJC has expended to Tarrant County contractors and subcontractors almost $21 million for the construction of the present campuses.

The foregoing statements identify the expenditure of large sums of money by students, employees, and by the College. No "multipliers" have been used on these amounts--though economists generally agree that each dollar spent in a given area is re-spent between three and five times in that area. Without the use of multipliers--TCJC and its students and employees contribute between $40-$50 million dollars each year to the area's economy.

Finally, it must be said that a College exists to serve primarily the education needs of people. Of TCJC's 1969 occupational education graduates, 87 percent continued to reside in Tarrant County and another 10 percent resided in a contiguous county. Of the university-parallel graduates, 77 percent were enrolled in senior institutions, of which 78 percent were enrolled in Tarrant, Denton, or Dallas County institutions.

While serving the educational and manpower needs of the people of Tarrant County, TCJC also contributes directly to the County's economic well being.

ECONOMIC CHARACTERISTICS DATA SUMMARY

(Phase I--Student Survey)

TARRANT COUNTY JUNIOR COLLEGE DISTRICT

Economic Characteristics Study, 1970
Phase I (Student Survey)

	Dependent			Independent			All		
	S	%	Proj.	S	%	Proj.	S	%	Proj.
Sample Size to Total Population	1362	24	5639	1216	24	5013	2578	24	10652
1. What is your classification?	(1361)			(1212)			(2573)		
1. Freshman	930	68	3835	649	54	2707	1579	61	6498
2. Sophomore	398	29	1635	429	35	1755	827	32	3409
3. Unclassified	33	3	169	134	11	551	167	7	745
2. How long have you lived in Tarrant County?	(1357)			(1207)			(2564)		
1. do not live in Tarrant Co.	81	6	338	58	5	251	139	5	532
2. less than one year	57	4	226	92	8	401	149	6	639
3. one to three years	112	8	451	229	19	952	341	13	1385
4. three to six years	113	8	451	165	14	702	278	11	1172
5. more than six years	994	74	4173	663	54	2707	1657	65	6924
3. Sex:	(1360)			(1200)			(2560)		
1. Male	802	59	3327	772	64	3208	1574	61	6498
2. Female	558	41	2312	428	36	1805	986	39	4154
4. Marital status:	(1360)			(1212)			(2572)		
1. Single	1300	96	5413	172	14	702	1472	57	6072
2. Married	28	2	113	966	80	4010	994	39	4154
3. Divorced or Widowed	32	2	113	74	6	301	106	4	426
5. How many children do you have?	(1359)			(1215)			(2574)		
1. None	1327	98	5526	499	40	2005	1826	71	7563
2. One	26	2	113	225	19	952	251	10	1065
3. Two	6	--	--	268	22	1103	274	11	1172
4. Three	0	--	--	139	12	602	139	5	532
5. Four or more	0	--	--	84	7	351	84	3	320
6. On which campus are you enrolled?	(1358)			(1209)			(2567)		
1. Northeast	460	34	1917	485	40	2005	945	37	3941
2. South	890	65	3665	704	58	2908	1594	62	6604
3. Both	8	1	57	20	2	100	28	1	107
7. When are you enrolled?	(1358)			(1209)			(2567)		
1. Day	1122	82	4624	549	45	2256	1671	65	6924
2. Evening	115	9	507	530	44	2206	645	25	2663
3. Both	121	9	508	130	11	551	251	10	1065
8. Present semester-hour load:	(1362)			(1216)			(2578)		
1. 15 or more hours	562	41	2312	187	15	752	749	29	3089
2. 12-14 semester hours	544	40	2256	301	25	1253	845	33	3515
3. 9-11 semester hours	110	8	451	143	12	602	253	10	1065
4. 6-10 semester hours	110	8	451	391	32	1604	501	19	2024
5. less than 6 semester hours	36	3	169	194	16	802	230	9	959

9.	Where do you live?	(1360)			(1208)			(2568)		
	1. with parents or relatives	1360	100	5639	0	--	--	1360	53	5646
	2. in a home you are purchasing	0	--	--	629	52	2607	629	25	2663
	3. in a home you are renting	0	--	--	188	15	752	188	7	746
	4. in a rented apartment	0	--	--	361	30	1504	361	14	1491
	5. in a rented room	0	--	--	30	3	150	30	1	106
10.	How do you usually commute to college?	(1360)			(1210)			(2570)		
	1. in <u>your</u> own car	946	70	3948	1139	94	4712	2085	81	8628
	2. in parent's or relative's car	279	20	1128	21	2	100	300	11	1172
	3. with another student/car pool	114	8	451	35	3	151	149	6	639
	4. ride the bus	13	1	56	3	--	--	16	1	106
	5. other	8	1	56	12	1	50	20	1	107
11.	How many miles do you travel to college <u>one way per day</u>?	(1359)			(1212)			(2571)		
	1. 0-5 miles	456	34	1917	371	31	1554	827	32	3409
	2. 6-10 miles	326	24	1353	324	27	1354	650	25	2663
	3. 11-15 miles	263	19	1072	212	17	852	475	19	2024
	4. 16-20 miles	192	14	789	190	16	802	382	15	1598
	5. more than 20 miles	122	9	508	115	9	451	237	9	958
12.	How many days per week do you travel to your campus?	(1342)			(1187)			(2529)		
	1. One	16	1	56	25	2	100	41	2	213
	2. Two	70	5	282	309	26	1303	379	15	1598
	3. Three	108	8	451	227	19	953	335	13	1385
	4. Four	99	8	451	211	18	902	310	12	1278
	5. Five or more	1049	78	4399	415	35	1755	1464	58	6178
13.	What do you think you would be doing if TCJC did not exist?	(1360)			(1207)			(2567)		
	1. Attending another college and living in Tarrant County	652	48	2707	648	54	2707	1300	50	5326
	2. Attending another college and <u>not</u> living in Tarrant County	491	36	2030	170	14	702	661	26	2770
	3. Working in Tarrant County	120	9	507	232	19	953	352	14	1491
	4. Working, but not in Tarrant County	23	2	113	27	2	100	50	2	213
	5. None of the above	74	5	282	130	11	551	204	8	852

On questions 14-28, if you are <u>single</u> include your expenses as well as what you estimate your parents spend directly on you. If you are <u>married</u>, <u>divorced</u> or <u>widowed</u>, include the costs for you and your family.

14.	Monthly housing costs (include rent or loan payment; exclude utilities):	(1349)			(1210)			(2559)		
	1. less than $75	626	46	2594	177	15	752	803	31	3302
	2. $75-99	239	18	1015	259	21	1052	498	19	2024
	3. $100-124	186	14	789	270	22	1103	456	18	1918
	4. $125-149	119	9	508	229	19	953	348	14	1491
	5. $150 or more	179	13	733	275	23	1153	454	18	1917

15. Monthly utilities costs (including telephone):	(1355)			(1209)			(2564)		
1. none	269	20	1128	108	9	451	377	15	1598
2. $1-14	337	25	1410	157	13	652	494	19	2024
3. $15-29	231	17	958	206	17	852	437	17	1811
4. $30-44	231	17	958	301	25	1253	532	21	2237
5. $45 or more	287	21	1185	437	36	1805	724	28	2982
16. Average monthly expenditure on food consumed in your home:	(1356)			(1206)			(2562)		
1. less than $50	323	24	1353	128	10	501	451	18	1917
2. $50-74	307	23	1297	240	20	1003	547	21	2237
3. $75-99	191	14	789	238	20	1002	429	17	1811
4. $100-124	264	19	1072	253	21	1053	517	20	2130
5. $125 or more	271	20	1128	347	29	1454	618	24	2557
17. Percent of food purchased in Tarrant County:	(1356)			(1207)			(2563)		
1. less than 20%	158	12	677	77	7	351	235	9	958
2. 20-39%	63	5	282	12	1	50	75	3	320
3. 40-59%	41	3	169	14	1	50	55	2	213
4. 60-79%	45	3	169	25	2	100	70	3	320
5. 80-100%	1049	77	4342	1079	89	4462	2128	83	8841
18. Average monthly expenditure for food purchased in restaurants:	(1361)			(1211)			(2572)		
1. less than $10	415	30	1692	278	23	1153	693	27	2876
2. $10-19	407	30	1692	361	30	1504	768	30	3196
3. $20-29	311	23	1297	276	23	1153	587	23	2450
4. $30-39	117	9	507	163	13	652	280	11	1172
5. $40 or more	111	8	451	133	11	551	244	9	958
19. Average monthly clothing costs:	(1360)			(1204)			(2564)		
1. less than $10	268	20	1128	162	14	702	430	17	1811
2. $10-19	389	29	1635	319	27	1353	708	28	2983
3. $20-29	355	26	1466	325	27	1354	680	27	2876
4. $30-39	179	13	733	194	16	802	373	14	1491
5. $40 or more	169	12	677	204	16	802	373	14	1491
20. Percent of clothing purchased in Tarrant County:	(1356)			(1208)			(2564)		
1. less than 20%	147	11	620	75	6	301	222	9	959
2. 20-39%	71	5	282	49	4	200	120	4	426
3. 40-59%	85	6	338	61	5	251	146	6	639
4. 60-79%	134	10	564	96	8	401	230	9	959
5. 80-100%	919	68	3835	927	77	3860	1846	72	7669
21. Do you have a car (or pickup) which is owned by you (or which is owned by your parents and used primarily by you)?	(1351)			(1209)			(2560)		
1. No	160	12	677	39	3	150	199	8	852
2. Yes, one car	998	74	4173	521	43	2156	1519	59	6285
3. Yes, two cars	141	10	564	564	47	2356	705	28	2983
4. Yes, more than two cars	52	4	225	85	7	351	137	5	532

22. Was this car purchased by you (or your parents) in Tarrant County?	(1353)			(1191)			(2544)		
1. I checked number "1" in Question 21	153	12	677	49	3	150	202	8	852
2. No, not purchased in Tarrant County	238	17	958	279	24	1203	517	20	2130
3. Yes, new car	363	27	1523	457	39	1955	820	32	3409
4. Yes, used car	599	44	2481	406	34	1705	1005	40	4261
23. Present monthly payments on auto(s) paid to a bank (or other lending organizations) in Tarrant County:	(1358)			(1212)			(2570)		
1. no monthly payments being made	721	53	2989	537	45	2256	1258	49	5220
2. less than $50 per month	97	7	395	62	5	251	159	6	639
3. $50-74	243	18	1015	184	15	752	427	17	1811
4. $75-99	171	13	733	231	19	952	402	16	1704
5. $100 or more	126	9	507	198	16	802	324	12	1278
24. Average monthly auto expenses:	(1355)			(1203)			(2558)		
1. I checked number "1" in Questions 21 and 22	141	10	564	44	4	201	185	7	746
2. less than $25	414	31	1748	293	24	1203	707	28	2982
3. $25-49	507	37	2087	452	38	1905	959	37	3941
4. $50-74	188	14	789	288	24	1203	476	19	2024
5. $75 or more	105	8	451	126	10	501	231	9	959
25. Percent of monthly auto expenses and repairs spent in Tarrant County:	(1351)			(1202)			(2553)		
1. less than 20%	268	20	1128	121	10	501	389	15	1598
2. 20-39%	64	5	282	31	3	150	95	4	426
3. 40-59%	70	5	282	51	4	201	121	5	533
4. 60-79%	83	6	338	69	6	301	152	6	639
5. 80-100%	866	64	3609	930	77	3860	1796	70	7456
26. Average monthly household (dishes, drapes, linens, etc.) and furniture:	(1355)			(1210)			(2565)		
1. less than $10	651	48	2707	476	39	1955	1127	44	4687
2. $10-19	300	22	1241	311	26	1304	611	24	2556
3. $20-29	192	14	789	197	16	802	389	15	1598
4. $30-39	93	7	395	102	9	451	195	8	852
5. $40 or more	119	9	507	124	10	501	243	9	959
27. Percent of furniture and household purchases made in Tarrant County:	(1339)			(1195)			(2534)		
1. less than 20%	268	20	1128	216	18	902	484	19	2024
2. 20-39%	103	8	451	49	4	201	152	6	639
3. 40-59%	92	7	395	73	6	301	165	7	746
4. 60-79%	134	10	564	78	7	351	212	8	852
5. 80-100%	742	55	3101	779	65	3258	1521	60	6391

28. Average monthly entertainment and recreation expenses (excluding restaurants):	(1361)			(1180)			(2541)		
1. less than $10	206	15	846	231	20	1003	437	17	1811
2. $10-19	324	24	1353	302	25	1253	626	25	2663
3. $20-29	348	26	1466	264	22	1102	612	24	2556
4. $30-39	211	15	846	161	14	701	372	15	1598
5. $40 or more	272	20	1128	222	19	953	494	19	2024

Select the ONE question that best describes your status; answer only that one question.

29. Answer if you are single (or widowed or divorced with no children):	(1360)		(5639)	(1230)		(5013)	(2590)		(10652)
Excluding college expenses (tuition, books, etc), estimate the total dollars you spend each month in Tarrant County:	(1318)		(5470)	(226)		(902)	(1544)		(6372)
1. less than $50	379	29	1586	19	8	72	398	26	1657
2. $50-74	256	19	1039	17	8	72	273	18	1147
3. $75-99	170	13	711	15	7	63	185	12	764
4. $100-124	193	15	821	23	10	90	216	14	892
5. $125 or more	320	24	1313	152	67	605	472	30	1912
30. Answer this question if you are married but have no children:									
Excluding college expenses (tuition, books, etc.), estimate the total dollars you spend each month in Tarrant County:	(12)		(56)	(302)		(1253)	(314)		(1309)
1. less than $125	4	33	18	27	9	113	31	10	131
2. $125-174	3	25	14	22	7	88	25	8	105
3. $175-224	0	--	--	23	7	88	23	7	92
4. $225-274	0	--	--	42	14	175	42	13	170
5. $275 or more	5	42	24	188	63	789	192	62	811
31. Answer this question if you are married, widowed, or divorced and support one or more children:									
Excluding college expenses (tuition, books, etc.), estimate the total dollars you spend each month in Tarrant County:	(30)		(113)	(702)		(2858)	(732)		(2971)
1. less than $250	9	30	34	66	9	257	75	10	297
2. $250-299	1	3	4	28	4	114	29	4	119
3. $300-349	3	10	11	50	7	200	53	7	208
4. $350-399	5	17	19	67	10	286	72	10	297
5. $400 or more	12	40	45	491	70	2001	503	69	2050

ECONOMIC CHARACTERISTICS DATA SUMMARY

(Phase II--Employee Survey)

TARRANT COUNTY JUNIOR COLLEGE DISTRICT

Economic Characteristics Study, 1970
Phase II (Employee Survey)

	Instructional			Non-Instructional		
	S	%	Proj.	S	%	Proj.
Sample Size to Total Population	235	74	319	164	67	246
1. How long have you resided in Tarrant County?	(235)			(164)		
1. do not reside in County	21	9	29	13	8	20
2. prior to 9/15/65	75	32	102	107	65	160
3. between 9/15/65--9/15/67	56	24	76	12	7	17
4. between 9/15/67--9/15/68	47	20	64	15	9	22
5. since 9/15/68	36	15	48	17	11	27
2. Sex:	(235)			(164)		
1. Male	159	68	217	64	39	96
2. Female	76	32	102	100	61	150
3. Marital Status:	(233)			(164)		
1. Single	31	13	42	13	8	20
2. Married	183	79	252	135	82	202
3. Divorced	15	6	19	8	5	12
4. Widowed	4	2	6	8	5	12
5. Other	0	0	0	0	0	0
4. How many children do you have enrolled in Tarrant County public elementary and secondary schools?	(235)			(164)		
1. None	139	59	188	105	64	158
2. One	40	17	54	24	15	37
3. Two	34	15	48	21	13	32
4. Three	12	5	16	9	5	12
5. Four or more	10	4	13	5	3	7
5. Do you have children enrolled in college?	(231)			(163)		
1. Yes, At TCJC	6	3	10	10	6	15
2. Yes, at TCU, TWC, or UTA	7	3	10	6	4	10
3. Yes, at other Texas college	5	2	6	15	9	22
4. Yes, at out-of-state college	4	2	6	0	0	0
5. No	209	90	287	132	81	199
6. Employment Status:	(235)			(164)		
1. Full-time	235	100	319	164	100	246
2. Part-time	0	0	0	0	0	0

7. Where do you live?	(232)			(162)		
1. with your parents	2	1	3	7	4	10
2. in owned (or purchasing) home	162	70	223	117	72	177
3. in rented home	14	6	19	13	8	20
4. in rented or leased apartment	54	23	74	20	13	32
5. in rented room	0	0	0	5	3	7
8. How many miles do you travel to work one way each day?	(234)			(164)		
1. 5 or less	88	38	121	63	38	94
2. 6-10 miles	47	20	64	46	28	69
3. 11-15 miles	35	15	48	27	16	39
4. 16-20 miles	37	16	51	14	9	22
5. more than 20	27	11	35	14	9	22
9. How many days per week do you travel to work?	(233)			(164)		
1. One day	0	0	0	0	0	0
2. Two days	0	0	0	2	1	3
3. Three days	7	3	10	3	2	5
4. Four days	0	0	0	1	1	2
5. Five or more days	226	97	309	158	96	236
10. Where do you think you would be living if you were not with TCJC?	(228)			(164)		
1. Living and working in Tarrant Co.	76	33	105	133	81	199
2. Living but not working in Tarrant County	10	4	13	5	3	7
3. Working but not living in Tarrant County	3	2	6	6	4	10
4. Living elsewhere in Texas	94	41	131	13	8	20
5. Living outside of Texas	45	20	64	7	4	10
11. Were you employed prior to joining TCJC?	(233)			(164)		
1. Yes, in Tarrant County	84	36	115	113	69	170
2. Yes, in another Texas County	88	38	121	20	12	30
3. Yes, outside of Texas	37	16	51	5	3	7
4. No, I was a student	22	9	29	8	5	12
5. No, I was not employed	2	1	3	18	11	27
12. If you were employed in Tarrant County prior to joining TCJC, was another person employed to fill the job you vacated?	(204)			(155)		
1. not employed in Tarrant County	114	56	179	60	39	96
2. position was filled	80	39	124	74	48	118
3. position was not filled	10	5	16	21	13	32
13. If you were employed in Tarrant County prior to joining TCJC, are you earning more than if you had continued with that employer?	(199)			(162)		
1. Not employed in Tarrant County	101	51	162	56	34	
2. More: about $___ per month	52	26	83	50	31	76
3. Less: about $___ per month	28	14	45	24	15	37
4. Earning about the same	18	9	29	32	20	49

ON THE FOLLOWING QUESTIONS (14-31), estimate monthly expenditures for you and your immediate family in the left column; estimate percent spent in Tarrant County in the right column.

14.	Average Monthly HOUSING COSTS (include repairs, payments, taxes; exclude utilities):	(232)			(161)		
	1. less than $100	23	10	32	49	30	74
	2. $100-149	64	28	89	52	32	78
	3. $150-199	67	29	93	36	22	54
	4. $200-249	49	21	67	12	8	20
	5. $250 or more	29	12	38	12	8	20
15.	Percent of HOUSING COSTS spent in Tarrant County:	(229)			(159)		
	1. less than 20 percent	26	11	35	15	10	25
	2. 20-39 percent	11	5	16	8	5	12
	3. 40-59 percent	3	1	3	8	5	12
	4. 60-79 percent	2	1	3	8	5	12
	5. 80 percent or more	187	82	262	120	75	185
16.	Average Monthly UTILITIES COSTS (include all telephone costs):	(232)			(163)		
	1. less than $25	36	16	51	27	17	42
	2. $25-49	66	28	89	60	37	91
	3. $50-74	97	41	131	49	30	74
	4. $75-100	20	9	29	23	14	34
	5. $100 or more	13	6	19	4	2	5
17.	Percent of UTILITIES spent in Tarrant County:	(232)			(161)		
	1. less than 20 percent	30	13	42	13	8	20
	2. 20-39 percent	3	1	3	8	5	12
	3. 40-59 percent	3	1	3	5	3	7
	4. 60-79 percent	0	0	0	2	1	3
	5. 80 percent or more	196	85	271	133	83	204
18.	Average Monthly expenditure on FOOD PREPARED IN YOUR HOME:	(232)			(163)		
	1. less than $50	27	11	35	17	10	25
	2. $50-99	51	22	70	55	34	84
	3. $100-149	96	41	131	51	31	76
	4. $150-199	37	17	54	26	16	39
	5. $200 or more	21	9	29	14	9	22
19.	Percent of FOOD purchased in Tarrant County:	(233)			(162)		
	1. less than 20 percent	19	8	26	6	4	10
	2. 20-39 percent	8	4	12	4	2	5
	3. 40-59 percent	2	1	3	10	6	15
	4. 60-79 percent	1	0	0	1	1	2
	5. 80 percent or more	203	87	278	141	87	214

20.	Average Monthly expenditure on FOOD NOT PREPARED IN YOUR HOME:	(233)			(163)		
	1. less than $25	102	44	140	92	56	138
	2. $25-49	75	32	102	46	28	69
	3. $50-74	35	15	48	14	9	22
	4. $75-99	12	5	16	5	3	7
	5. $100 or more	9	4	13	6	4	10
21.	Percent of FOOD purchased in Tarrant County:	(229)			(163)		
	1. less than 20 percent	26	11	34	14	8	20
	2. 20-39 percent	6	3	10	6	4	10
	3. 40-59 percent	8	3	10	6	4	10
	4. 60-79 percent	11	5	16	6	4	10
	5. 80 percent or more	178	78	249	131	80	196
22.	Average Monthly expenditure on CLOTHING:	(234)			(162)		
	1. less than $25	53	22	70	59	36	88
	2. $25-49	112	48	153	66	41	101
	3. $50-74	40	17	54	24	15	37
	4. $75-99	18	8	26	6	4	10
	5. $100 or more	11	5	16	7	4	10
23.	Percent of CLOTHING costs spent in Tarrant County:	(231)			(162)		
	1. less than 20 percent	28	12	38	15	9	22
	2. 20-39 percent	5	2	7	10	6	15
	3. 40-59 percent	12	5	16	10	6	15
	4. 60-79 percent	16	7	22	7	4	10
	5. 80 percent or more	170	74	236	120	75	184
24.	Average Monthly expenditure on HOUSEHOLD GOODS (drapes, linens, dishes, etc.) AND FURNITURE:	(232)			(164)		
	1. less than $25	137	59	188	97	58	143
	2. $25-49	59	26	83	40	25	62
	3. $50-74	24	10	32	11	7	17
	4. $75-99	8	3	10	8	5	12
	5. $100 or more	4	2	6	8	5	12
25.	Percent of HOUSEHOLD GOODS AND FURNITURE costs spent in County:	(230)			(163)		
	1. less than 20 percent	30	13	42	24	15	37
	2. 20-39 percent	4	2	6	7	4	10
	3. 40-59 percent	3	1	3	7	4	10
	4. 60-79 percent	9	4	13	3	2	5
	5. 80 percent or more	184	80	255	122	75	184
26.	Average Monthly expenditure on ENTERTAINMENT AND RECREATION:	(235)			(164)		
	1. less than $25	95	40	128	101	61	150
	2. $25-49	92	39	124	44	27	67
	3. $50-74	26	11	35	16	10	25
	4. $75-99	16	7	22	1	1	2
	5. $100 or more	6	3	10	2	1	2

27.	Percent of ENTERTAINMENT AND RECREATION COSTS Spent in County:	(233)			(163)		
	1. less than 20 percent	28	12	38	30	18	44
	2. 20-39 percent	8	4	13	9	6	15
	3. 40-59 percent	22	9	29	9	6	15
	4. 60-79 percent	24	10	32	15	9	22
	5. 80 percent or more	151	65	207	100	61	150
28.	Average Monthly expenditure on AUTOMOBILE PAYMENTS (exclude repair and maintenance costs):	(234)			(164)		
	1. None	72	30	96	53	32	78
	2. less than $75	42	18	58	43	26	64
	3. $75-124	77	33	105	46	28	69
	4. $125-174	30	13	41	13	8	20
	5. $175 or more	14	6	19	9	6	15
29.	AUTO PAYMENTS PAID to a Tarrant County organization:	(229)			(163)		
	1. No pyaments being made	84	37	118	63	39	96
	2. All payments in Tarrant Co.	96	42	134	80	49	121
	3. Payments made outside County	49	21	67	20	12	29
30.	Average Monthly expenditure on AUTO REPAIR, SUPPLIES, & SERVICE:	(234)			(163)		
	1. less than $25	81	35	112	62	38	94
	2. $25-49	64	27	86	50	31	76
	3. $50-74	48	21	67	33	20	49
	4. $75-99	22	9	29	12	7	17
	5. $100 or more	19	8	25	6	4	10
31.	Percent of AUTO EXPENSES spent in Tarrant County:	(231)			(164)		
	1. less than 20 percent	16	7	22	16	10	25
	2. 20-39 percent	7	3	10	9	5	12
	3. 40-59 percent	11	5	16	9	5	12
	4. 60-79 percent	11	5	16	11	8	20
	5. 80 percent or more	186	80	255	119	72	177
32.	How many four-wheel vehicles have you and your family purchased since you joined TCJC? (Check only one)	(233)			(164)		
	1. None	76	33	105	64	39	96
	2. One new car	76	33	105	25	15	37
	3. Two new cars	22	9	29	5	3	7
	4. One used car	22	9	29	35	21	51
	5. Two used cars	12	5	16	14	9	22
	6. One new car and one used car	18	9	29	10	6	15
	7. Two new cars and one used car	3	1	3	4	2	5
	8. One new car and two used cars	0	0	0	2	1	3
	9. Two new cars and two used cars	1	0	0	1	1	3
	10. None of the above	3	1	3	4	3	7

33. Is your spouse employed? (Check one)	(183)			(152)		(202)
1. not employed	83	45	113	47	31	63
2. at TCJC	4	2	5	5	3	6
3. at salary under $300 per month	7	4	10	14	9	18
4. at salary between $300-$400	6	3	8	17	11	22
5. at $400-$500 per month	16	9	22	18	12	24
6. at $500-$600 per month	18	10	25	11	7	14
7. at $600-$700 per month	17	10	25	9	6	12
8. at $700-$800 per month	6	3	8	4	3	6
9. at $800-$900 per month	5	3	8	4	3	6
10. at $900 or more per month	21	11	28	23	15	31
34. Of the total net income of you and your family, what percent is spent in Tarrant County?	(232)			(164)		
1. less than 10 percent	10	4	13	2	1	2
2. 10-20 percent	2	1	3	0	--	--
3. 20-30 percent	2	1	3	2	1	2
4. 30-40 percent	3	1	3	0	--	--
5. 40-50 percent	5	2	6	0	--	--
6. 50-60 percent	10	4	13	4	2	5
7. 60-70 percent	3	1	3	10	6	15
8. 70-80 percent	30	13	42	13	8	20
9. 80-90 percent	56	25	80	32	20	49
10. 90 percent or more	111	48	153	101	62	153